

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,062	04/25/2005	Andrew Charles Duncan	GRF-15791	3483
40854 DANKIN HII	7590 02/28/200 I PORTER & CLARK	EXAMINER		
RANKIN, HILL, PORTER & CLARK LLP 4080 ERIE STREET			LE, TOAN M	
WILLOUGHBY, OH 44094-7836			ART UNIT	PAPER NUMBER
			2863	
	_			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 02/28/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Art Unit: 2863

DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 100-121 and 124 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims are directed to a judicial exception; as such, pursuant to the Interim Guidelines on Patent Eligible Subject Matter (MPEP 2106), the claims must have either physical transformation and/or a useful, concrete and tangible result. Although, the claims appear useful and concrete, there does not appear to be a tangible result claimed. Merely, providing at least one data acquisition unit arranged to simultaneously gather geophysical data from a plurality of sensors connected in use to the at least one data acquisition unit; connecting the plurality of sensors to the at least one data acquisition unit; generating at the data acquisition unit time reference data usable to control the time at which gathering of samples of geophysical data are taken; calculating spatial derivatives between simultaneous samples associated with adjacent sensors that are connected, during use, to the at least one data acquisition unit; and using the calculated spatial derivative to derive geophysical data would not appear to be sufficient to constitute a tangible result, since the outcome of the providing, connecting, generating, calculating, and using steps have not been used in a disclosed practical application nor made available in such a manner that its usefulness in a disclosed practical application can be realized. As such, the subject matter of the claims is not patent eligible.

Allowable Subject Matter

Art Unit: 2863

Claim 122 is objected to as being dependent upon a rejected base claim 100, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Allowable Subject Matter

Claims 63-99, 123, and 125 are allowed.

The reason for allowance of claims 63 and 125 is the inclusion of calculating spatial derivatives between simultaneous samples associated with adjacent sensors that are connected, during use, to the at least one data acquisition unit in gathering geophysical data.

The reason for allowance of claims 64-99 and 123 is they depend on allowed claim 63.

Response to Arguments

Applicant's arguments with respect to claims 63-125 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan M. Le whose telephone number is (571) 272-2276. The examiner can normally be reached on Monday through Friday from 9:00 A.M. to 5:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

Application/Control Number: 10/518,062

Art Unit: 2863

Page 4

applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Toan Le

February 22, 2007

Su, / John Barloy Aaminet Supervisory Patent Exerciser
Technology Center 2800